6.

## **CLAIMS**

1. (Canceled)
2. (Canceled)
3. (Canceled)
4. (Canceled)
4. (Canceled)
5. (Canceled)

(Canceled)

7. (Currently amended) A cochlear implant system for a patient's cochlea comprising:

at least one electrode for electrical coupling with the patient's cochlea; an internal coil for implanting in the patient to drive the <u>at least one</u> electrode; a microphone for outputting electrical sound signals in response to external sounds; an oscillator for generating an electrical analog carrier signal having a frequency greater than 20 kHz;

a modulator for modulating the carrier signal with the sound signals to generate a modulated signal; and

an external coil for magnetically coupling the modulated signal to the internal coil such that the modulated signal is electrically <u>directly</u> applied to the cochlea <u>to cause a percept.</u>

- 8. (Original) The system of claim 7, wherein the modulator is an amplitude modulator.
- 9. (Original) The system of claim 7, wherein the modulator is a frequency modulator.

AMENDMENT

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- 10. (Original) The system of claim 7, wherein the electrical analog carrier signal has a frequency of at least 32 kHz.
- 11. (Original) The system of claim 10, wherein the modulator is an amplitude modulator.
- 12. (Original) The system of claim 10, wherein the modulator is a frequency modulator.
- 13. (New) The system of claim 7 comprising at least one reference electrode for providing a reference voltage to the at least one electrode.
- 14. (New) The system of claim 14 wherein the modulated signal allows a wearer of the implant system to hear frequencies higher than air-conducted sonic human hearing sensitivity.